Finn Ferguson

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Skills

Technologies: Angular, React.js, Node.js, JavaScript (ES6), SCSS, RxJS/NgRx, Jest, Java, Python, C#, C++
Tools & Practices: Git, CI/CD, Confluence/Jira, Unit Testing, WCAG, Firebase, Figma, Agile, Unity

Work Experience

Senior Software Developer, RBC – Toronto, Ontario   Aug 2023 – Present
- Enabled 40,000+ seamless client transitions by leading development of key features for a migration portal, contributing to a successful $13.5B acquisition for the bank
- Modernized a mono-repo application by migrating the codebase to Angular 17, which improved build performance by 13% and resolved critical technical debt due to outdated peer dependencies
- Maintained 85% application-wide code coverage by implementing robust unit tests in Jest alongside feature development, ensuring release confidence and reducing the defect rate
- Optimized CI/CD builds and deployments by migrating to GitHub Actions, cutting build times by 60% and eliminating hours of manual UAT deployment work for developers
- Supported production deployments and post-release testing, investigating and resolving critical front-end bugs through cross-layer root cause analysis to ensure platform stability

Software Developer Intern, RBC – Toronto, Ontario   May - Sept 2020 and May 2021 - May 2022
- Delivered full-stack features using Angular and Java, gaining experience with enterprise-grade development
- Upheld accessibility standards by addressing WCAG violations, lowering our accessibility defect rate to 0%
- Improved user experience by designing and architecting a custom solution to display year over year historical balances in the cash flow graph, which increased data visibility by 100%

UI Engineering Intern, Xactly – Toronto, Ontario   July - Sept 2022
- Improved a legacy sales platform with a distributed team across North America using agile development
- Delivered functional UI enhancements and resolved bugs using jQuery, contributing to the stability and usability of Xactly's legacy portal for sales professionals

Software Engineer Intern, Hatch Ltd. – Oakville, Ontario   May - Sept 2019
- Worked in a fast-paced Agile environment to modernize internal engineering tools by building robust ASP.NET APIs and serverless functions using C#, Entity Framework and .NET, all hosted on Azure
- Architected a legacy internal tool as a sleek Angular single-page application, cutting page load times by 47%

Projects

Gatekeepr (*gate-keepr.com*)
- Designed and developed a daily web-based music trivia game in Angular, attracting 500+ returning players
- Hosted the application on Firebase with Google Analytics support to monitor real-time application insights
- Integrated open source music APIs and cookie-based persistence for dynamic game content

Neurovascular Aneurysm AR Visualizer
- Built a multi-user AR application for HoloLens 2, enabling group interaction of 3D Scans via a localized coordinate system and Azure Spatial Anchors
- Demoed to healthcare researchers to support patient education and informed consent

IMDb Top 100 List Picker (*top100listpicker.com*)
- Developed a React.js web app that recommends 3 random, non-repeating films from IMDb's Top 100 list using open-source movie datasets and cookie-based client persistence
- Created while learning the principles of React.js and designed from scratch using Figma

Education

The University of Western Ontario – HBSc in Computer Science, Minor in Software Engineering   May 2023